

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 October 2004 (14.10.2004)

PCT

(10) International Publication Number  
**WO 2004/087544 A1**

(51) International Patent Classification<sup>7</sup>: **B65G 39/12**

(74) Agent: VAN BREDA, Jacques et al.; Octrooibureau Los En Stigter B.V., Weteringschans 96, NL-1017 XS Amsterdam (NL).

(21) International Application Number:  
PCT/NL2004/000192

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 18 March 2004 (18.03.2004)

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: Dutch

(26) Publication Language: English

(30) Priority Data:  
1023050 31 March 2003 (31.03.2003) NL

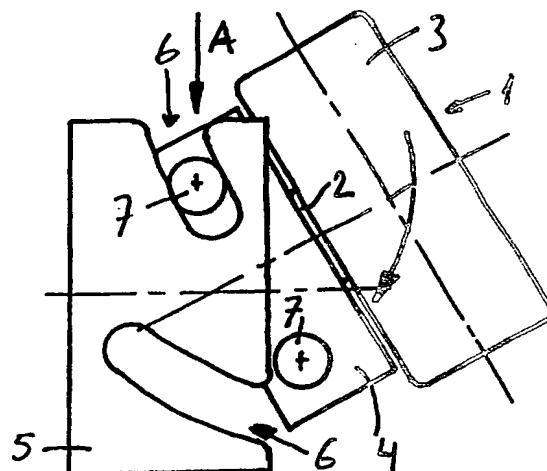
(71) Applicant (for all designated States except US): TECHNISCHE UNIVERSITEIT DELFT [NL/NL]; Julianalaan 134, NL-2628 BL Delft (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LODEWIJKS, Gabriel [NL/NL]; Hoofdkanaal OZ 102, NL-7881 CP Emmer-Compascuum (NL). DRENTH, Karel, Frederik [NL/NL]; Waterlelie 48, NL-2804 PW Gouda (NL).

[Continued on next page]

(54) Title: SUPPORTING ORGAN FOR AN AXIALLY MOVING BODY



**WO 2004/087544 A1**

(57) Abstract: A supporting body (1) for an axially moving body such as a conveyor belt, a cable or a stepless escalator, comprising a roller (3) rotatable about a shaft (2) for the support of the body and at least a first support (4) in which the shaft of the roller is mounted for carrying the roller, wherein a second support is provided, wherein the first support and the second support (5) are designed to cooperate in carrying the roller, wherein the second support is fixedly mounted and the first support can, in the moving body's direction of movement, be fixedly coupled with the second support, while in a plane perpendicular to this direction of movement, the first support is rotatable about a pivoting point located on a contact surface shared by the roller and the body to be supported by the roller.



**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*